



IN THE CLAIMS

Claims 1-49 are presented below, with claims 1-49 pending. As shown below, claims 1, 12, 23, 30, and 39 have been amended.

1. (Currently Amended) A digital broadcasting reception system comprising a receiver for receiving digital broadcasting, a display for displaying the images of the digital broadcasting received by said receiver and a printer for printing images contained in the digital broadcasting received by said receiver;

said receiver, said display and said printer being connected to each other by way of a first signal transmission means for transmitting digital signals;

said receiver having:

a reception means for receiving digital broadcasting;

an imaging means for generating video data by performing a predetermined imaging operation according to the received signals of digital broadcasting; and

an output means for transmitting the video data generated by said imaging means by way of said first signal transmission means to said display and to said printer;

said printer having:

a reception means for receiving video data transmitted by said first signal transmission means; and

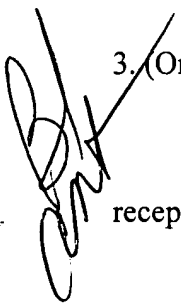
a printing means for printing the images of the video data received by said reception means.

2. (Original) The digital broadcasting reception system according to claim 1, wherein

said receiver includes a memory means for temporarily storing the video data generated by said imaging means;

said memory means being adapted to temporarily storing said video data until the completion of the reception of said video data by said reception means of said printer; and

said output means transmits said video data stored in said memory means by way of said first signal transmission means.

 3. (Original) The digital broadcasting reception system according to claim 1, wherein

said printer includes a converting means for processing the video data received by said reception means and generating printing video data suitable for printing;

said printing means being adapted to print the images of the printing video data generated by said converting means.

4. (Original) The digital broadcasting reception system according to claim 3, wherein said printer includes a memory means for temporarily storing at least part of the printing video data generated by said converting means.


5. (Original) The digital broadcasting reception system according to claim 1, wherein said printer includes a memory means for temporarily storing at least part of the video data received by said reception means.

6. (Original) The digital broadcasting reception system according to claim 1, wherein

said imaging means generates display video data to be used for displaying images on said display and printing video data to be used for printing images by said printer;

said output means being adapted to transmit said display video data and said printing video data by way of said first signal transmission means; and

said printer includes a video data extracting means for extracting the printing video data out of the display video data and the printing video data transmitted by way of said first signal transmission means.

 7. (Original) The digital broadcasting reception system according to claim 6, wherein the output means of said receiver transmits the printing video data by way of said first signal transmission means during the time period when no display video data is transmitted.

8. (Previously Presented) The digital broadcasting reception system according to claim 1, wherein

said receiver and said printer are connected to each other by way of a second signal transmission means showing a data transmission rate lower than said first signal transmission means;

said receiver and said printer being provided with respective transmission/reception means for transmitting and receiving code data containing a quantity of information smaller than said video data.

9. (Original) The digital broadcasting reception system according to claim 8, wherein said transmission/reception means of said receiver and that of said printer transmit and receive control signals for controlling the operation of said printer and/or status signals indicating the operating status of the printer.

10. (Original) The digital broadcasting reception system according to claim 8, wherein

said receiver includes:

a code data generating means for generating code data containing service information and/or character information by performing a certain processing operation according to the signals of the digital broadcasting received by said reception means; and

said printer includes:

a code data extracting means for extracting the service information and/or the character information out of the code data received by said transmission/reception means; and

a synthesizing means for synthesizing the service information and/or the character information extracted by said code data extracting means and generating synthesized images;

said printing means being adapted to print the synthesized images generated by said synthesizing means.

11. (Original) The digital broadcasting reception system according to claim 8, wherein

said receiver includes:

a code data generating means for generating code data containing predetermined selection information; and

said printer includes:

a reception means for receiving digital broadcasting according to the selection information contained in the code data received by said transmission/reception means;

an information generating means for generating service information and/or character information by performing a certain processing operation according to the signals of the digital broadcasting received by said reception means; and

a synthesizing means for synthesizing said video data and the service information and/or the character information generated by said information generating means and generating synthesized images;

said printing means being adapted to print the synthesized images generated by said synthesizing means.

12. (Currently Amended) A digital broadcasting receiver comprising a receiving section for receiving digital broadcasting and a printing section connected to said receiving section by way of a first signal transmission means for transmitting signals in order to print images contained in the digital broadcasting received by said receiving section;

said receiving section having:

a reception means for receiving digital broadcasting;

an imaging means for generating video data by performing a predetermined imaging operation according to the received signals of digital broadcasting; and


an output means for transmitting the video data generated by said imaging means to a display by way of said first signal transmission means for displaying the images of the digital broadcasting and to said printing section by way of said first signal transmission means;

said printing section having:

a reception means for receiving video data transmitted by said first signal transmission means; and

a printing means for printing the images of the video data received by said reception means.

13. (Original) The digital broadcasting receiver according to claim 12, wherein

 said receiving section includes a memory means for temporarily storing the video data generated by said imaging means;

said memory means being adapted to temporarily storing said video data until the completion of the reception of said video data by said reception means of said printing section; and

said output means transmits said video data stored in said memory means by way of said first signal transmission means.


14. (Original) The digital broadcasting receiver according to claim 12, wherein

said printing section includes a converting means for processing the video data received by said reception means and generating printing video data suitable for printing;

said printing means being adapted to print the images of the printing video data generated by said converting means.

15. (Original) The digital broadcasting receiver according to claim 14, wherein said printing section includes a memory means for temporarily storing at least part of the printing video data generated by said converting means.

16. (Original) The digital broadcasting receiver according to claim 12, wherein said printing section includes a memory means for temporarily storing at least part of the video data received by said reception means.




17. (Original) The digital broadcasting receiver according to claim 12, wherein
said imaging means generates display video data to be used for displaying images on a display and printing video data to be used for printing images by said printing section;
said output means being adapted to transmit said display video data and said printing video data by way of said first signal transmission means; and
said printing section includes a video data extracting means for extracting printing video data out of the display video data and the printing video data transmitted by way of said first signal transmission means.

18. (Original) The digital broadcasting receiver according to claim 17, wherein the output means of said receiving section transmits the printing video data by way of said first signal transmission means during the time period when no display video data is transmitted.

19. (Previously Presented) The digital broadcasting receiver according to claim 12, wherein
said receiving section and said printing section are connected to each other by way of a
second signal transmission means showing a data transmission rate lower than said first signal
transmission means;

said receiving section and said printing section being provided with respective
transmission/reception means for transmitting and receiving code data containing a quantity of
information smaller than said video data.



20. (Original) The digital broadcasting receiver according to claim 19, wherein said
transmission/reception means of said receiving section and that of said printing section transmit
and receive control signals for controlling the operation of said printing section and/or status
signals indicating the operating status of the printing section.

21. (Original) The digital broadcasting receiver according to claim 19, wherein

said receiving section includes:

a code data generating means for generating code data containing service information
and/or character information by performing a certain processing operation according to the
signals of the digital broadcasting received by said reception means; and

said printing section includes:

a code data extracting means for extracting the service information and/or the character
information out of the code data received by said transmission/reception means; and

a synthesizing means for synthesizing the service information and/or the character
information extracted by said code data extracting means and generating synthesized images;

said printing means being adapted to print the synthesized images generated by said synthesizing means.

22. (Original) The digital broadcasting receiver according to claim 19, wherein

said receiving section includes:

a code data generating means for generating code data containing predetermined selection information; and

said printing section includes:

a reception means for receiving digital broadcasting according to the selection information contained in the code data received by said transmission/reception means;

an information generating means for generating service information and/or character information by performing a certain processing operation according to the signals of the digital broadcasting received by said reception means; and

a synthesizing means for synthesizing said video data and the service information and/or the character information generated by said information generating means and generating synthesized images;

said printing means being adapted to print the synthesized images generated by said synthesizing means.

23. (Currently Amended) A receiver comprising:

a reception means for receiving digital broadcasting;

an imaging means for generating video data by performing a predetermined imaging operation according to the received signals of digital broadcasting; and

an output means for transmitting the video data generated by said imaging means to a display by way of said first signal transmission means for displaying digital broadcasting and a printer for printing images contained in digital broadcasting by way of a first signal transmission means.

24. (Original) The receiver according to claim 23, further comprising:

a memory means for temporarily storing the video data generated by said imaging means;
said memory means being adapted to temporarily storing said video data until the completion of the reception of said video data by said reception means of said printing section;
and

said output means transmits said video data stored in said memory means by way of said first signal transmission means.

25. (Original) The receiver according to claim 23, wherein

said imaging means generates display video data to be used for displaying images on said display and printing video data to be used for printing images by said printer;

said output means being adapted to transmit said display video data and said printing video data by way of said first signal transmission means.


26. (Original) The receiver according to claim 25, wherein said output means transmits the printing video data by way of said first signal transmission means during the time period when no display video data is transmitted.

27. (Previously Presented) A receiver according to claim 23, wherein

it is connected to said printer by way of a second signal transmission means showing a data transmission rate lower than said first signal transmission means; and

further comprises a transmission/reception means for transmitting and receiving code data containing a quantity of information smaller than said video data.

28. (Original) The receiver according to claim 27, wherein said transmission/reception means transmits and receives control signals for controlling the operation of said printer and/or status signals indicating the operating status of the printer.

 29. (Original) The receiver according to claim 27, further comprising a code data generating means for generating code data containing service information and/or character information by performing a certain processing operation according to the signals of the digital broadcasting received by said reception means.

30. (Currently Amended) A printer for printing the images of the video data generated by a receiver out of the digital broadcasting received by it, said printer comprising:


a reception means for receiving the video data transmitted from said receiver to a display by way of a first signal transmission means for transmitting signals for displaying digital broadcasting and to the printer by way of a said first signal transmission means ~~for transmitting signals~~; and

a printing means for printing the images of the video data received by said reception means.

31. (Original) The printer according to claim 30, further comprising:

a converting means for processing the video data received by said reception means and generating printing video data suitable for printing; said printing means being adapted to print the images of the printing video data generated by said converting means.

32. (Original) The printer according to claim 31, further comprising a memory means for temporarily storing at least part of the printing video data generated by said converting means.

 33. (Original) The printer according to claim 30, further comprising a memory means for temporarily storing at least part of the video data received by said reception means.

34. (Original) The printer according to claim 30, wherein

said reception means receives the display video data generated by said receiver so as to be used for displaying images on said display and the printing video data also generated by said receiver so as to be used for printing images by said printer by way of said first signal transmission means;

said printer further comprising a video data extracting means for extracting the printing video data out of the display video data and the printing video data received by said reception means.

35. (Previously Presented) The printer according to claim 30, wherein

it is connected to said receiver by way of a second signal transmission means showing a data transmission rate lower than said first signal transmission means; and

further comprises a transmission/reception means for transmitting and receiving code data containing a quantity of information smaller than said video data.

36. (Original) The printer according to claim 35, wherein said transmission/reception means transmits and receives control signals for controlling the operation of said printer and/or status signals indicating the operating status of the printer.

37. (Original) The printer according to claim 35, wherein

said receiving section receives the code data containing service information and/or character information and generated by said receiver by performing a certain processing operation according to the signals of the received digital broadcasting; and

said printer further comprises:

a code data extracting means for extracting the service information and/or the character information out of the code data received by said transmission/reception means; and

a synthesizing means for synthesizing the service information and/or the character information extracted by said code data extracting means and generating synthesized images;

said printing means being adapted to print the synthesized images generated by said synthesizing means.

38. (Original) The printer according to claim 35, wherein

said receiving means receives the code data generated by said receiver and containing predetermined selection information; and

said printer further comprises:

a reception means for receiving digital broadcasting according to the selection information contained in the code data received by said transmission/reception means;

an information generating means for generating service information and/or character information by performing a certain processing operation according to the signals of the digital broadcasting received by said reception means; and

a synthesizing means for synthesizing said video data and the service information and/or the character information generated by said information generating means and generating synthesized images;

said printing means being adapted to print the synthesized images generated by said synthesizing means.

39. (Currently Amended) A printing method for receiving digital broadcasting by means of a receiver and printing images contained in the digital broadcasting received by said receiver, said method comprising:

connecting said receiver, a display for displaying the images of the digital broadcasting received by said receiver and ~~said a~~ printer to each other by means of a first signal transmission means for transmitting digital signals;

said receiver operating for:

receiving digital broadcasting;

generating video data by performing a predetermined imaging operation according to the received signals of digital broadcasting; and

transmitting the video data generated by said imaging means by way of said first signal transmission means to said display and to said printer;

said printer operating for:

receiving the video data transmitted by said first signal transmission means; and

printing the images of the video data received by said reception means.

40. (Original) The printing method according to claim 39, wherein

said receiver is adapted to temporarily store the generated video data until the completion of the reception of said video data to be used by said printer for printer; and

transmit said temporarily stored video data by way of said first signal transmission means.

41. (Original) The printing method according to claim 39, wherein said printer processes the received video data, generates printing video data suitable for printing and prints the images of the generated printing video data.

42. (Original) The printing method according to claim 41, wherein said printer temporarily stores at least part of the printing video data generated by said converting means.

43. (Original) The printing method according to claim 39, wherein said printer temporarily stores at least part of the received video data.

44. (Original) The printing method according to claim 39, wherein

said receiver is adapted to generate display video data to be used for displaying images on said display and printing video data to be used for printing images by said printer by performing a predetermined imaging operation according to the signals of the received digital broadcasting and transmits the generated display video data and printing video data by way of said first signal transmission means; and

said printer is adapted to extract the printing video data out of the display video data and the printing video data transmitted by way of said first signal transmission means.

45. (Original) The printer method according to claim 44, wherein said receiver is adapted to transmit the printing video data by way of said first signal transmission means during the time period when no display video data is transmitted.

46. (Previously Presented) The printing method according to claim 39, wherein

said receiver and said printer are connected to each other by way of a second signal transmission means showing a data transmission rate lower than said first signal transmission means;

said receiver and said printer being provided with respective transmission/reception means for transmitting and receiving code data containing a quantity of information smaller than said video data.

47. (Original) The printing method according to claim 46, wherein said receiver and said printer transmit and receive control signals for controlling the operation of said printer and/or status signals indicating the operating status of the printer.

48. (Original) The printing method according to claim 46, wherein

said receiver generates code data containing service information and/or character information by performing a certain processing operation according to the signals of the digital broadcasting received by it; and

said printer extracts the service information and/or the character information out of the code data received by it, synthesizes the service information and/or the character information extracted by it and generates synthesized images;

said printer being adapted to print the synthesized images.

49. (Original) The digital broadcasting reception system according to claim 46, wherein

said receiver generates code data containing predetermined selection information; and

said printer receives digital broadcasting according to the selection information contained in the received code data, generates service information and/or character information by performing a certain processing operation according to the signals of the received digital broadcasting, synthesizes said video data and the service information and/or the character information generated by said information generating means and generates synthesized images;

said printer being adapted to print the synthesized images generated by said synthesizing means.

REMARKS

Favorable reconsideration of the application is respectfully requested in light of the amendments and remarks herein.

Applicants acknowledge with appreciation that the Examiner has indicated that claims 10, 11, 21, 22, 37, 38, 48, and 49 are allowable.

Upon entry of this amendment, claims 1-49 will be pending. By this amendment, claims 1, 12, 23, 30, and 39 have been amended.

§102 Rejection of Claims 1, 2, 6-9, 12, 13, 17-20, 23-29, 30, 34-36, 39, 40, and 44-47

In Section 2 of the Office Action, the Examiner has rejected claims 1, 2, 6-9, 12, 13, 17-20, 23-29, 30, 34-36, 39, 40, and 44-47 under 35 U.S.C. §102(e) as being unpatentable over Garland (U.S. Patent 6,366,359; hereinafter referred to as "Garland"). This rejection is respectfully traversed below.

Regarding claim 1, as shown above, claim 1 has been amended and calls for:

1. (Currently Amended) A digital broadcasting reception system comprising a receiver for receiving digital broadcasting, a display for displaying the images of the digital broadcasting received by said receiver and a printer for printing images contained in the digital broadcasting received by said receiver;
said receiver, said display and said printer being connected to each other by way of a first signal transmission means for transmitting digital signals;
said receiver having:
a reception means for receiving digital broadcasting;
an imaging means for generating video data by performing a predetermined imaging operation according to the received signals of digital broadcasting; and

an output means for transmitting the video data generated
by said imaging means by way of said first signal transmission
means to said display and to said printer;
said printer having:
a reception means for receiving video data transmitted by
said first signal transmission means; and
a printing means for printing the images of the video data
received by said reception means.

Claim 1 has been amended to clarify that the output means of the receiver transmits the video data by way of the first signal transmission means to both the display and to the printer. (See, e.g., the Specification at page 20, lines 10-14.) Therefore, it should be clear that the receiver sends the video data to the display and to the printer across one signal transmission means and so the printer receives the video data across the same connection as the display.

Considering the Examiner's rejection of claim 1 in Sections 2 and 5 of the Office Action as applied to amended claim 1, it does not appear that the arguments presented by the Examiner in rejecting claim 1 over Garland establish how Garland shows or suggests amended claim 1. In Section 2, the Examiner refers to Figure 2 of Garland. The Examiner appears to argue that items 202, 204, 212, and 214 show the receiver of claim 1, item 208 shows the display of claim 1, and item 216 shows the printer of claim 1. However, in Figure 2, the display means 208 is connected to the "receiver" (synchronizing means 206) by one connection and the printing means 216 is connected to the "receiver" (synchronizing means 206 and second decompressor 214) by a second separate connection. Therefore, it does not appear that this Figure shows that the display and the printer receive video data across the same connection as called for in claim 1. Without further explanation by the Examiner, it is submitted that the Examiner has not established how Garland shows or suggests this aspect of claim 1.

In Section 5, the Examiner argues that claim 1 does not call for sending video data from the receiver to the printer and to the display across one signal transmission means. While it is submitted that the original language of claim 1 did show this relationship, claim 1 has been amended to clarify this relationship, as discussed above.

Accordingly, it does not appear that the Examiner has established how Garland, as referenced by the Examiner in rejecting claim 1, shows or suggests at least these aspects of amended claim 1, and so it is submitted that the Examiner has not established how Garland shows or suggests amended claim 1 as a whole. Claims 2-8 depend from claim 1, and it is also submitted that the Examiner has not established how Garland shows or suggests claims 2-8, through their dependence on claim 1. Similar arguments apply to claims 12, 23, 30, and 39, and so to claims 13-22 that depend from claim 12, to claims 24-29 that depend from claim 23, to claims 31-38 that depend from claim 30, and to claims 40-49 that depend from claim 39.

In addition, regarding claim 8, as shown above, claim 8 calls for:

8. (Original) The digital broadcasting reception system according to claim 1, wherein
said receiver and said printer are connected to each other by way of a second signal transmission means showing a data transmission rate lower than said first signal transmission means;
said receiver and said printer being provided with respective transmission/reception means for transmitting and receiving code data containing a quantity of information smaller than said video data.

Accordingly, in claim 8, the receiver and the printer are connected by two signal transmission means: a high speed connection and a low speed connection. The printer receives video data from the receiver across the high speed connection. The printer receives code data (containing a quantity of information smaller than the video data) from the receiver across the low speed connection. Therefore, the receiver sends to the printer video data and code data

across two respective connections and so there are two connections between the receiver and the printer.

Considering the argument and explanation presented by the Examiner in Sections 2 and 5 of the Office Action in rejecting claim 8 over Garland, it does not appear that the Examiner has established how Garland shows a receiver and a printer connected by two connections having different data rates as called for in claim 8. The Examiner refers to Figure 2 and argues that there are two ways to the printing means. However, claim 8 calls for two connections between the receiver and the printer. It appears that Figure 2 shows one connection between the synchronizing means 206 and the printing means 216 and one connection between the second decompressor 214 and the printing means. Accordingly, the connections to the printing means 216 are from different components, rather than two connection between a receiver and a printer as called for in claim 8.

Accordingly, it does not appear that the Examiner has established how Garland, as referenced by the Examiner in rejecting claim 8, shows or suggests at least these aspects of claim 8, and so it is submitted that the Examiner has not established how Garland shows or suggests claim 8 as a whole. Claims 9-11 depend from claim 8, and it is also submitted that the Examiner has not established how Garland shows or suggests claims 9-11, through their dependence on claim 8. Similar arguments apply to claims 19, 27, 35, and 46, and so to claims 20-22 that depend from claim 19, to claims 28-29 that depend from claim 27, to claims 36-38 that depend from claim 35, and to claims 47-49 that depend from claim 46.

Based upon the foregoing, it is submitted that claims 1, 2, 6-9, 12, 13, 17-20, 23-29, 30, 34-36, 39, 40, and 44-47 are not anticipated by nor rendered obvious by the teachings of Garland, as presented and referenced by the Examiner. Accordingly, it is submitted that the

Examiner's rejection of claims 1, 2, 6-9, 12, 13, 17-20, 23-29, 30, 34-36, 39, 40, and 44-47 based upon 35 U.S.C. §102(e) has been overcome by the present remarks and withdrawal thereof is respectfully requested.

§103 Rejection of Claims 3-5, 14-16, 31-33, and 41-43

In Section 4 of the Office Action, the Examiner has rejected claims 3-5, 14-16, 31-33, and 41-43 under 35 U.S.C. §103(a) as being unpatentable over Garland (U.S. Patent 6,366,359; hereinafter referred to as "Garland") in view of Ito et al (U.S. Patent 6,529,522; hereinafter referred to as "Ito"). This rejection is respectfully traversed below.

Claims 3-5 depend from claim 1. As discussed above, it is submitted that the rejection of claim 1 has been overcome. Therefore, it is respectfully submitted that the rejection of claims 3-5 has also been overcome through the dependence of claims 3-5 on claim 1.

Claims 14-16 depend from claim 12. As discussed above, it is submitted that the rejection of claim 14-16 has been overcome. Therefore, it is respectfully submitted that the rejection of claims 14-16 has also been overcome through the dependence of claims 14-16 on claim 12.

Claims 31-33 depend from claim 30. As discussed above, it is submitted that the rejection of claim 30 has been overcome. Therefore, it is respectfully submitted that the rejection of claims 31-33 has also been overcome through the dependence of claims 31-33 on claim 30.

Claims 41-43 depend from claim 39. As discussed above, it is submitted that the rejection of claim 39 has been overcome. Therefore, it is respectfully submitted that the

rejection of claims 41-43 has also been overcome through the dependence of claims 41-43 on claim 39.

Based upon the foregoing, it is submitted that claims 3-5, 14-16, 31-33, and 41-43 are not anticipated by nor rendered obvious by the teachings of Garland and Ito, as presented and referenced by the Examiner. Accordingly, it is submitted that the Examiner's rejection of claims 3-5, 14-16, 31-33, and 41-43 based upon 35 U.S.C. §103(a) has been overcome by the present remarks and withdrawal thereof is respectfully requested.

Allowable Subject Matter

In Section 6 of the Office Action, the Examiner has objected to claims 10, 11, 21, 22, 37, 38, 48, and 49 as being dependent on a rejected base claim. Claims 10-11 depend from claim 1. Claims 21-22 depend from claim 12. Claims 37-38 depend from claim 30. Claims 48-49 depend from claim 39. As discussed above, it is submitted that the rejections of claims 1, 12, 30, and 39 have been overcome, and so it is respectfully requested that this objection to claims 10, 11, 21, 22, 37, 38, 48, and 49 be withdrawn.